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## Laser Welding

*By Jurg Baumer, The LaserXperts*

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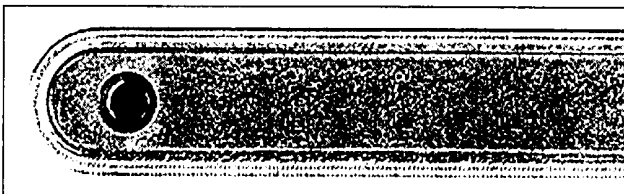
**TC 1700**

## Comparison to Other Welding Processes

	Laser	E-Beam	Resistance	TIG
Heat Generation	Low	Moderate	Moderate	Very high
Weld Quality	Excellent	Excellent	Good	Excellent
Weld Speed	High	High	Moderate	Moderate
Operating Costs	Moderate	Moderate	Moderate	Low
Tooling Costs	Low	High	High	Moderate
Controllability	Very Good	Good	Low	Fair
Automation	Excellent	Good	Fair	Fair
Range of Dissimilar Materials	Wide	Wide	Narrow	Narrow

## Application Range

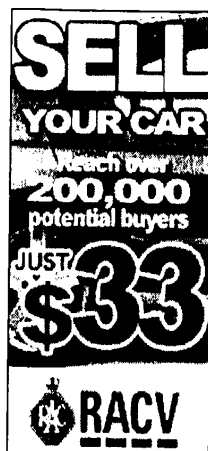
High strength, crack-free welds are achieved in steel with carbon contents below 0.2 per cent, tantalum, nickel, beryllium-nickel and iron-nickel alloys, titanium, copper alloys and high grade aluminium.



### The LaserXperts

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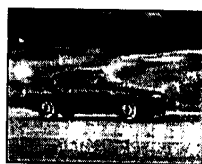
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